



Attorney Docket No. 940977-328RE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

GROUP ART UNIT:

Ole Jorgen ANFINDSEN

SERIAL NO. 09/726,560

EXAMINER:

FILED: December 1, 2000

FOR: PARAMETERIZED LOCK MANAGEMENT SYSTEM AND METHOD FOR
CONDITIONAL CONFLICT SERIALIZABILITY OF TRANSACTIONS

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Prior to examination on the merits, please amend the above-identified patent
application as follows:

IN THE SPECIFICATION:

Please add the following Abstract of Disclosure at the end of the specification on a
new page:

Abstract of the Disclosure

A database management system (DBMS) is modified to provide improved concurrent usage of database objects, particularly when the system is executing long lived transactions. A subset of the transactions access database objects using parameterized read and parameterized write access modes. Each transaction using a parameterized write mode of access for a database object specifies a write access mode, and a write access mode parameter, where the parameter indicates a data reliability classification. Each transaction using a parameterized read mode of access for a database object specifies a read access mode, and a read access mode parameter, where the parameter indicates one or more reliability classifications that are acceptable to the transaction. Whenever a transaction requests access to a specified database object, the DBMS generates a corresponding lock request for the object. If the lock request is a parameterized lock request, a corresponding parameterized lock request is generated. A lock manager processes each lock request by checking to see if any outstanding, previously granted lock is unconditionally conflicting or conditionally conflicting with the requested lock. Two lock requests are unconditionally conflicting if their resource range overlaps and the access modes of the two requests are incompatible. Two requests are conditionally conflicting if analysis of their read/write parameters is necessary to determine whether a conflict exists. A conditional conflict is resolved by determining whether the write parameters for the write lock in question are a subset of the read parameters for the read lock in question.

REMARKS

Favorable consideration of this application as presently amended and in light of the following discussion is respectfully requested.

The originally filed reissue application inadvertently omitted the Abstract of the Disclosure, ~~and the~~ ^{from the original patent is being added} ~~The original Abstract of the Disclosure was added by Preliminary Amendment.~~ ^{way of the present} The Abstract of the Disclosure is supported by the original specification. It is not believed to constitute new matter. Therefore, entry of the Abstract of the Disclosure is respectfully requested.

Consequently, in light of the above discussion and in view of the present amendment, the present application is in condition for formal allowance and an early and favorable action to that effect is requested.

Respectfully submitted,

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